This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1. (Currently amended) ~~Multilayer~~ A multilayer pearl ~~lustre~~ luster pigment ~~on the basis of~~ comprising a platelet-shaped substrate, which substrate comprises ~~comprising~~ a material having a refractive index of more than 1.8, ~~which comprises at least,~~ and, on the substrate, at least:

(i) a first layer of a material of low refractive index in the range from 1.35 to 1.8,

(ii) ~~optionally,~~ a second layer of a material having a refractive index of more than 1.8, and

(iii) a semitransparent metal layer which is applied to the substrate or to the layers (i) or (ii), and

(iv) ~~if desired~~ optionally, an aftercoating.

2. (Currently amended) ~~Pearl lustre~~ A pearl luster pigment according to Claim 1, ~~characterized in that~~ wherein the substrate is platelet-shaped titanium dioxide, zirconium dioxide, α-iron (III) oxide, tin dioxide or zinc oxide.

3. (Currently amended) ~~Pearl lustre~~ A pearl luster pigment according to ~~Claims 1 and 2, characterized in that~~ claim 1, wherein the material of low refractive index is SiO_2, Al_2O_3, Alo(OH), B_2O_3, MgF_2 or an acrylate polymer.

4. **(Currently amended)** ~~Pearl lustre~~ A pearl luster pigment according to Claim 1, ~~characterized in that~~ wherein the second layer material ~~of high~~ having a refractive index of more than 1.8 is TiO_2, ZrO_2, Fe_2O_3, SnO_2, ZnO or a mixture of these oxides or an iron titanate, an iron oxide hydrate, a titanium suboxide or a mixture and/or mixed phase of these compounds.

5. **(Currently amended)** ~~Process~~ A process for producing the pigment of ~~the invention by~~ claim 1, which comprises:

- applying a precursor of the substrate material as a thin film to a continuous belt,
- solidifying the liquid film by drying and, in so doing, developing the metal oxide by chemical reaction from the precursor,
- detaching the dried film,
- washing the resultant substrate particles and resuspending them in a coating solution,
- coating the substrate particles with two or more layers of metal oxides or metals, and
- optionally, aftercoating the resultant pigment.

6. **(Currently amended)** ~~Process~~ A process according to Claim 5, ~~characterized in that precursors~~ wherein the precursor employed ~~are solutions~~ is a solution of an organic or inorganic ~~compounds~~ compound of the metals titanium, zirconium, iron, tin or zinc.

7. **(Currently Amended)** ~~Process~~ A process according to Claim 5, ~~characterized in that~~ wherein the precursor is titanium tetrachloride.

8. **(Currently Amended)** ~~Process~~ A process according to Claim 5, ~~characterized in that~~ wherein, following drying of the material to be coated, the layers are applied in a fluidized-bed reactor by CVD and/or PVD.

9. **(Currently amended)** ~~Use of the pigments according Claim 1~~ A method for pigmenting paints, printing inks, plastics cosmetics, glazes for ceramics, ~~and~~ or glasses which comprises incorporating a pigment according to claim 1 therein.

10. **(Currently Amended)** ~~Use of the pigments according to Claim 1 for the security sector, especially~~ A method for printing items of value ~~and~~ or of security, ~~for agricultural films and for the laser marking of plastics~~ which comprises incorporating a pigment according to claim 1 therein.

11. **(Previously presented)** Paints, printing inks, plastics, cosmetics, ceramics, glasses and polymer films pigmented with a pigment according to Claim 1.

12. **(Previously presented)** Laser-markable plastics comprising pigments according to Claim 1.

13. (New) An agricultural film, which comprises a pigment according to claim 1.

14. (New) A multilayer pearl luster pigment of claim 1, wherein the semitransparent metal layer is applied on the second layer, (ii).

15. (New) A multilayer pearl luster pigment of claim 14, wherein the pigment further comprises, on the semitransparent metal layer, a further layer of material of low refractive index in the range from 1.35 to 1.8 and, thereon, a further layer of material having a refractive index of more than 1.8.

16. (New) A multilayer pearl luster pigment of claim 1, wherein the pigment further comprises, on the second layer (ii), an additional layer of a material of low refractive index in the range from 1.35 to 1.8 and thereon a layer of material having a refractive index of more than 1.8, and the semitransparent metal layer is on this last layer.

17. (New) A multilayer pearl luster pigment of claim 1, wherein the platelet-shaped substrate are particles having a thickness between 0.05 and 5 μm and an extent in the other two dimensions of 2 to 200 μm, the first layer, (i), has a thickness of 10 to 1000 nm, the second layer, (ii), has a thickness of 10 to 550 nm, and the semitransparent metal layer has a thickness of 5 to 20 nm.

18. (New) A multilayer pearl luster pigment of claim 1, wherein the platelet-shaped substrate are particles having a thickness between 0.05 and 2 μm and an extent in the other two dimensions of 5 to 50 μm, the first layer, (i), has a thickness of 20 to 800 nm, the second layer, (ii), has a thickness of 15 to 400 nm, and the semitransparent metal layer has a thickness of 5 to 20 nm.

19. (New) A multilayer pearl luster pigment of claim 1, wherein the semitransparent metal layer is of aluminum, chromium, nickel, a chromium-nickel alloy, or silver.